

WHAT IS CLAIMED IS:

1. An optical memory, comprising:

5 (a) an optical disk comprising a material in which a holographic grating can be created at plural locations within the disk, wherein the holographic grating represents a stored data element;

(b) an electro-optical head capable of creating the holographic grating at any one of the plural locations within  
10 the disk via a beam of light.

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a1